

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. – 26. (Canceled)

27. (Currently amended) ~~The method of claim 25~~ A method of providing a two-way voice path between a VoIP device in a network and a mobile station wherein a call originates at the VoIP device, the method comprising:

processing a call connection request at a VoIP call-server;

initiating mobile call set-up at a Network Server Platform (NSP), wherein

said step of initiating mobile call set-up comprises:

verifying the called party as a valid mobile station;

sending a message to page the mobile station via the SRP;

receiving page response from the mobile station; and

instructing the VoIP call-server to forward the call connection request to the SRP;

tuning the mobile station to a digital traffic channel (DTC) to establish a voice path over the air via a Software Radio Port (SRP);

alerting both the mobile station and the VoIP device;

establishing an RTP media path for exchange of RTP data packets via the SRP; and

interconnecting the voice path over the air and the RTP path over the packet network via the SRP.

28. – 37. (Canceled)

38. (Currently amended) ~~The method of claim 34~~ A method of providing a two-way voice path between a first mobile station and a second mobile station wherein the first mobile station is associated with a first Software Radio Port

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(SRP) and the second mobile station is associated with a second SRP and wherein a call originates at the first mobile station, the method comprising:
initiating call set-up for the first mobile station at the first SRP;
tuning the first mobile station to a digital traffic channel (DTC) via the first SRP to establish a voice path over the air;
engaging a VoIP call-server to set up a VoIP call via the first SRP;
initiating mobile call set-up for the second mobile station via a Network Server Platform (NSP), wherein said step of initiating mobile call set-up for the second mobile station via a Network Server Platform comprises:
verifying the called number as a valid mobile station;
sending a message to page the second mobile station via the second SRP;
receiving a page response from the second mobile station; and
instructing the VoIP call-server to forward the call connection request to the second SRP;
tuning the second mobile station to a digital traffic channel (DTC) via the second SRP to establish a voice path over the air;
alerting the first mobile station and the second mobile station via the second SRP;
generating a ringback tone to the first mobile station via the first SRP;
establishing an RTP media path for exchange of RTP data packets;
interconnecting a voice path between the first SRP and the first mobile station and an RTP path over the packet network; and
interconnecting a voice path between the second SRP and second mobile station and an RTP path over the packet network.

39. (Currently amended) ~~The method of claim 34~~ A method of providing a two-way voice path between a first mobile station and a second mobile station wherein the first mobile station is associated with a first Software Radio Port (SRP) and the second mobile station is associated with a second SRP and wherein a call originates at the first mobile station, the method comprising:

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initiating call set-up for the first mobile station at the first SRP;
tuning the first mobile station to a digital traffic channel (DTC) via the first
SRP to establish a voice path over the air;
engaging a VoIP call-server to set up a VoIP call via the first SRP;
initiating mobile call set-up for the second mobile station via a Network
Server Platform (NSP);
tuning the second mobile station to a digital traffic channel (DTC) via the
second SRP to establish a voice path over the air, wherein said step of tuning the
second mobile station to a digital traffic channel (DTC) via the second SRP
comprises:
 sending a message to tune the second mobile station to a specified
 digital traffic channel; and
 detecting the second mobile station as being tuned to the specified
 digital traffic channel;
alerting the first mobile station and the second mobile station via the
second SRP;
generating a ringback tone to the first mobile station via the first SRP;
establishing an RTP media path for exchange of RTP data packets;
interconnecting a voice path between the first SRP and the first mobile
station and an RTP path over the packet network; and
interconnecting a voice path between the second SRP and second mobile
station and an RTP path over the packet network.

40. – 41. (Canceled)

42. (Currently amended) ~~The method of claim 34~~ A method of providing a two-
way voice path between a first mobile station and a second mobile station
wherein the first mobile station is associated with a first Software Radio Port
(SRP) and the second mobile station is associated with a second SRP and
wherein a call originates at the first mobile station, the method comprising:
initiating call set-up for the first mobile station at the first SRP;

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tuning the first mobile station to a digital traffic channel (DTC) via the first SRP to establish a voice path over the air;

engaging a VoIP call-server to set up a VoIP call via the first SRP;

initiating mobile call set-up for the second mobile station via a Network Server Platform (NSP);

tuning the second mobile station to a digital traffic channel (DTC) via the second SRP to establish a voice path over the air;

alerting the first mobile station and the second mobile station via the second SRP;

generating a ringback tone to the first mobile station via the first SRP;

establishing an RTP media path for exchange of RTP data packets,

wherein said step of establishing an RTP media path for exchange of RTP data packets comprises:

receiving a connect indication at the second SRP from the second mobile station;

sending a connect indication from the second SRP to the VoIP call-server;

receiving a connect indication at the first SRP from the VoIP call-server;

sending back an acknowledge message from the first SRP;

turning off the ringback tone;

setting up the RTP media path for exchange of RTP data packets;

and

informing the NSP of the call connection;

interconnecting a voice path between the first SRP and the first mobile station and an RTP path over the packet network; and

interconnecting a voice path between the second SRP and second mobile station and an RTP path over the packet network.

43. (Canceled)

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44. (Currently amended) ~~The method of claim 34~~ A method of providing a two-way voice path between a first mobile station and a second mobile station wherein the first mobile station is associated with a first Software Radio Port (SRP) and the second mobile station is associated with a second SRP and wherein a call originates at the first mobile station, the method comprising:

- initiating call set-up for the first mobile station at the first SRP;
- tuning the first mobile station to a digital traffic channel (DTC) via the first SRP to establish a voice path over the air;
- engaging a VoIP call-server to set up a VoIP call via the first SRP;
- initiating mobile call set-up for the second mobile station via a Network Server Platform (NSP);
- tuning the second mobile station to a digital traffic channel (DTC) via the second SRP to establish a voice path over the air;
- alerting the first mobile station and the second mobile station via the second SRP;
- generating a ringback tone to the first mobile station via the first SRP;
- establishing an RTP media path for exchange of RTP data packets;
- interconnecting a voice path between the first SRP and the first mobile station and an RTP path over the packet network; and
- interconnecting a voice path between the second SRP and second mobile station and an RTP path over the packet network, wherein said step of interconnecting a voice path between the second SRP and second mobile station and an RTP path over the packet network comprises:
 - converting received voice frames from the second mobile station to RTP packets to be sent to the packet network; and
 - converting received RTP packets to voice frames to be sent to the second mobile station.

45. (Canceled)

46. (Canceled)

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47. (Original) A method for terminating a call between a first mobile station and a second mobile station, said first mobile station associated with a first Software Radio Port (SRP) and said second mobile station associated with a second SRP, the method comprising:

- receiving a release indication at the first SRP from the first mobile station;
- releasing radio resources and an RTP media path at the first SRP;
- sending a call release request from the first SRP to a VoIP call-server;
- sending a call release indication from the first SRP to a Network Server Platform (NSP);
- receiving a release indication at the second SRP from the VoIP call-server;
- sending a call release request from the second SRP to the second mobile station;
- releasing radio resources and an RTP media path at the second SRP; and
- sending a call release indication from the second SRP to NSP.

48. (Original) A method for maintaining an RTP media path during handoff of a mobile station from a first Software Radio Port (SRP) to a second Software Radio Port (SRP) wherein the mobile station is connected with a party, the method comprising:

- sending a handoff request from the first SRP to a Network Server Platform (NSP);
- handing off the mobile station from the first SRP to the second SRP via the NSP;
- sending a call transfer request from the first SRP to the NSP;
- releasing radio resources at the first SRP;
- detecting at the second SRP the mobile station as being tuned to a digital traffic channel and sending a conference call request to the party via a VoIP call-server;

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setting up an RTP media path for exchange of RTP data packets via the second SRP when the conference call has been established;
interconnecting the voice path between the second SRP and the mobile station and the RTP path;
sending a handoff complete indication from the second SRP to the NSP;
sending a call release request from the first SRP to the party via the VoIP call-server;
releasing the RTP media path at the first SRP; and
sending call release indication from the first SRP to the NSP.